# How to Configure the WebLogic Application Server for use with PowerLOGJ 2.0 in a Windows Environment

1. Install Java Development Kit (JDK) 1.7 or greater if Java is currently not installed on the server machine.

2. Install WebLogic 12.x with all default values, by following the Oracle documentation.

3. Configure WebLogic to deploy the PowerLOGJ 2.0 web application. Follow Oracle's documentation to perform the following

   a. Double Click on the "wlsxxx.zip" file (where xxx is the version number) to extract contents into a directory.

   b. Open a Windows "Command Prompt" by searching for and typing "cmd" using the Windows Button in the lower left had corner of the screen.
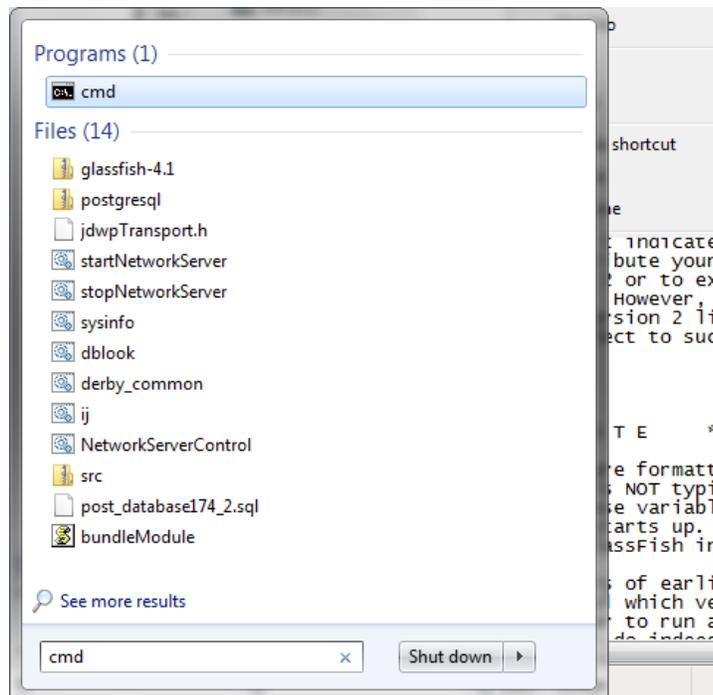
   c. Type "set MW_HOME=<installation path>", "where installation path" is the location in the previous step to set the "MW_HOME" environmental variable. In this case the "set MW_HOME=C:\Apps\wls1213_dev".

d. B Type "set JAVA_HOME=<installation path>", "where installation path" is the location of the Java Development Kit (JDK) performed in the previous step to set the "JAVA_HOME" environmental variable. In this case the "set JAVA_HOME=C:\Program File\Java\jdk1.8.0_25".

e. Using the "Windows Command Prompt" run the "setWLSENV.cmd" to WLS Environment Variables located at the follow location "%MW_HOME%\wlserver\server\bin\setWLSEnv.cmd"

f. Run the "configure" script in the "WH_HOME" directory. This will set all environmental
    variable for WebLogic and it will also create a WebLogic domain, "mydomain" and
   server "myserver".

g. The script will take several minutes to execute.
    i.   Type in "Y" and press "Enter" to create the domain "mydomain."
    ii. Type in "username" for the "mydomian" username.
   iii. Type in "password" for the "mydomain" password.

h. At this time, WebLogic has created all of its required directories, subfolders, and services. WebLogic will create "mydomain" underneath WebLogiic's "domains" underneath the WebLogic installation directory. In this case "C:\Apps\wls1213_dev\wls12130\user_projects\domains\mydomain."

4. Place JDBC driver file in correct location by downloading JDBC URL Driver file called "postgresql1-9.0-801.jdbc4.jar" from PostgreSQL's website and place the file in the "Domain's lib" directory
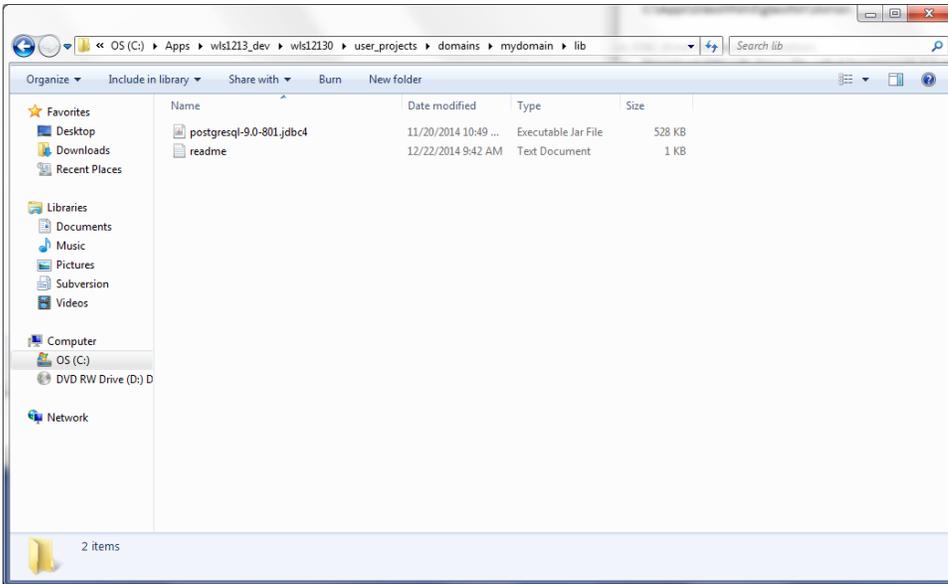
5. Double click on the "PowerLOGJ2-Enterprise.exe" and follow the instructions to extract the necessary files.

6. Using "Windows Explorer" create a directory called "exploded/powerlogj2"
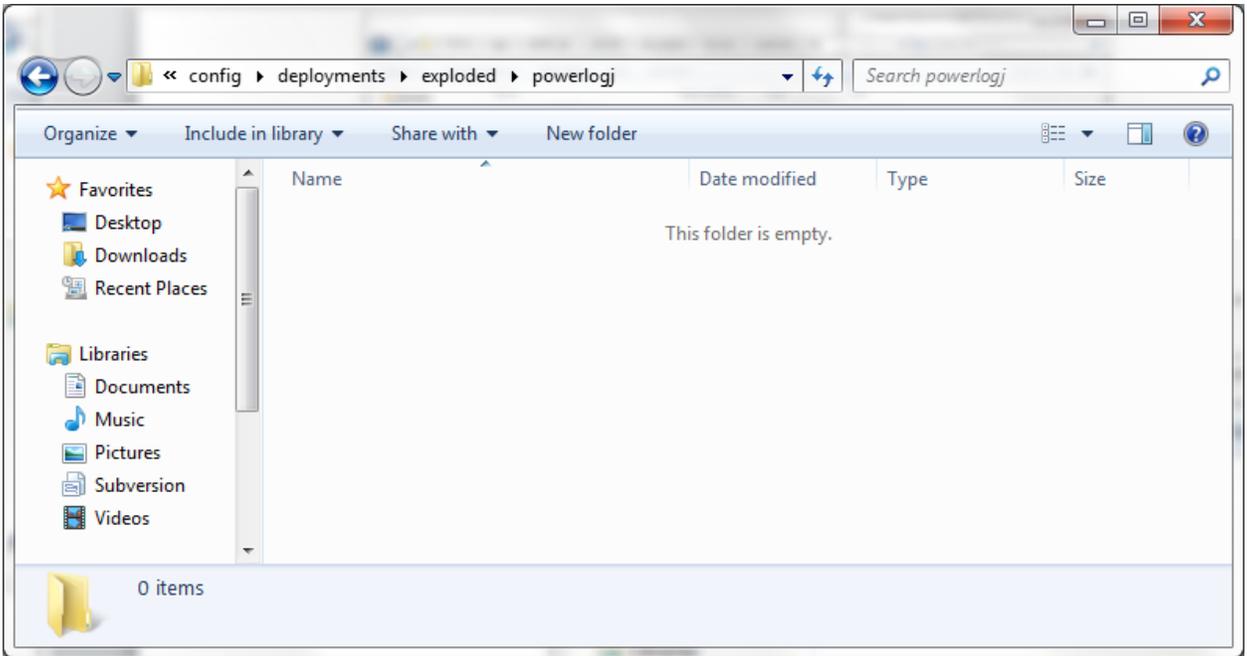
7. Using "WinZip" or the default "windows file extract utility", extract all files to the
    "exploded\powerlogj" directory. In this cases,
    "C:\Apps\wls1213_dev\wls12130\user_projects\domains\mydomain\config\deployment\explo
   ded\powerlogj".
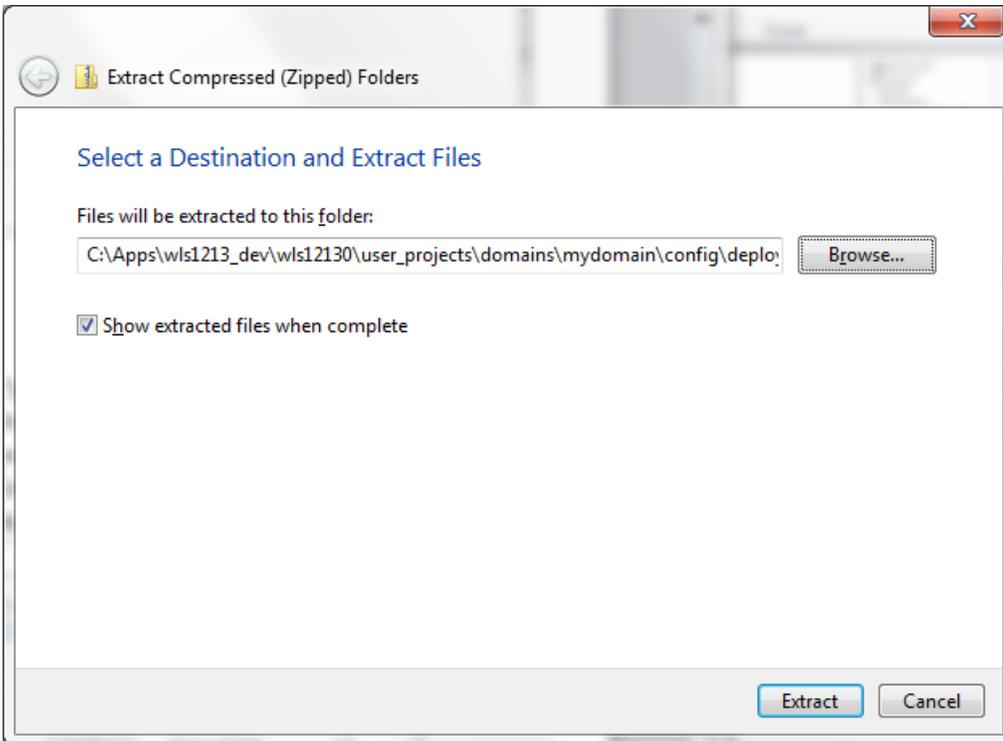

8. Create database Properties File.

a. Using "Windows Explorer" browse to the "powerlogdb-sample.properties" file. The location of the folder was chosen during the "PowerLOGJ2-Enterprise.exe" installation. The default location is "C:\Users\{username}\USAMC LOGSA\PowerLOGJ2\". In the case shown below, the file is located in C:\Apps\test2\schemas directory. Run the "PowerLOGJ2-Enterprise.exe" if not already done.
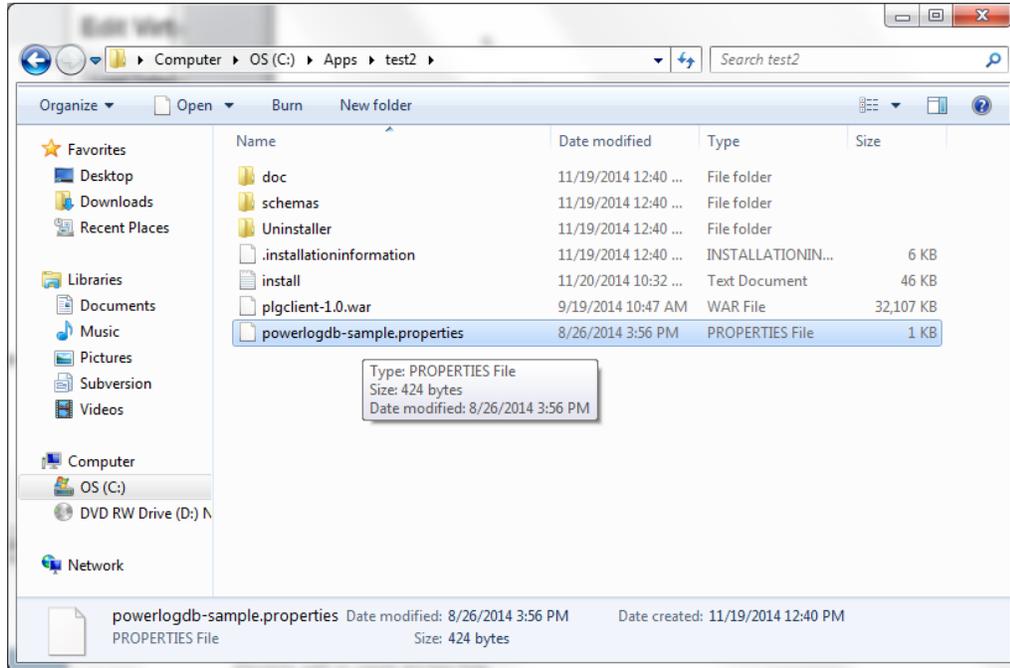
b. Using a text editor, such as, NotePad, WordPad, TextPad, open the "powerlogdb-sample.properties" file. The sample file is for using an Oracle database.
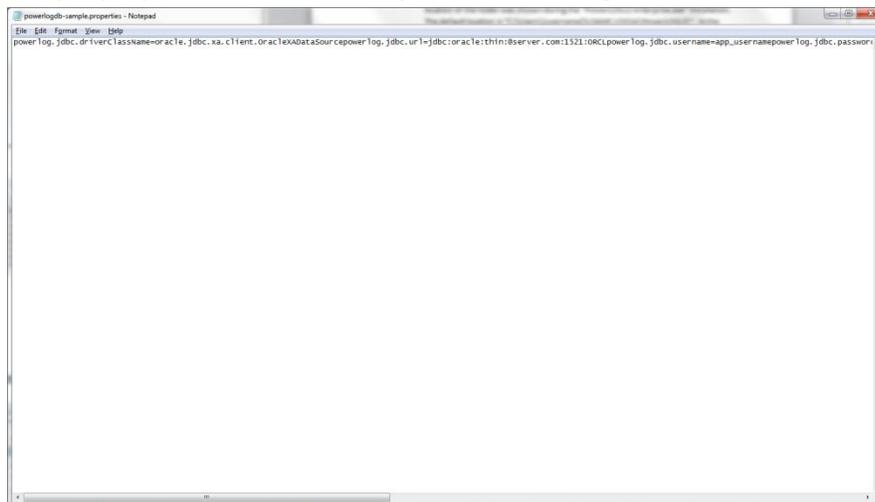

c. Modify the file as shown below. The "<password>" will need to be changed to the actual passwords for the "powerlogdb" and "powerlogrealm" databases configured during the configuration of the PostgreSQL database installation.

powerlogdb.properties - Notepad

File Edit Format View Help

```
powerlog.jdbc.driverClassName=org.postgresql.xa.PGXADataSource
powerlog.jdbc.url=jdbc:postgresql://localhost:5432/powerlogdb
powerlog.jdbc.username=pljdatauser
powerlog.jdbc.password=<password>
powerlogrealm.jdbc.driverClassName=org.postgresql.xa.PGXADataSource
powerlogrealm.jdbc.url=jdbc:postgresql://localhost:5432/powerlogrealm
powerlogrealm.jdbc.username=postgres
powerlogrealm.jdbc.password=<password>
```

    d. Save the file as "powerlogdb.properties" in the "exploded\powerlogj\WEB-INF\classes"
       directory. In this case,
       "C:\Apps\wls1213_dev\wls12130\user_projects\domains\mydomain\config\deploymen
   ts\exploded\powerlogj\WEB-INF\classes".
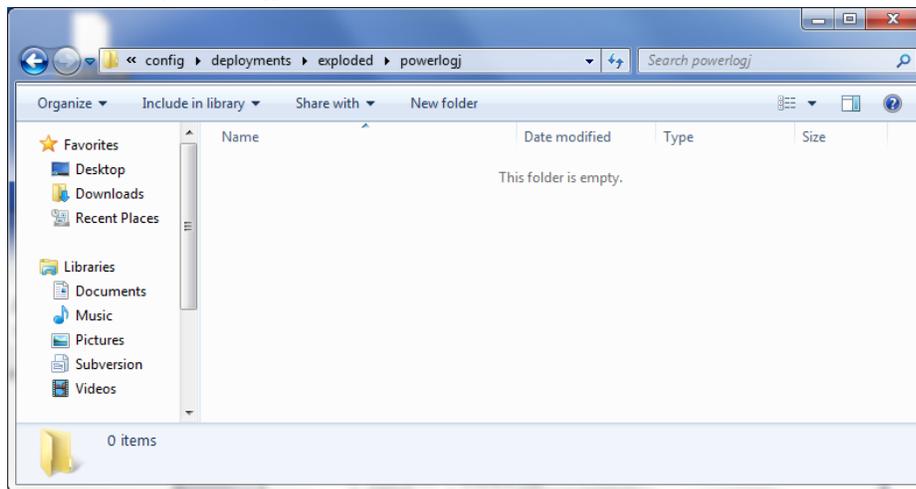
9. Deploy the PowerLOGJ 2.0 web application
    a. Using an Internet Browser, type the following address in the "URL",
   "http://localhost:7001/console".
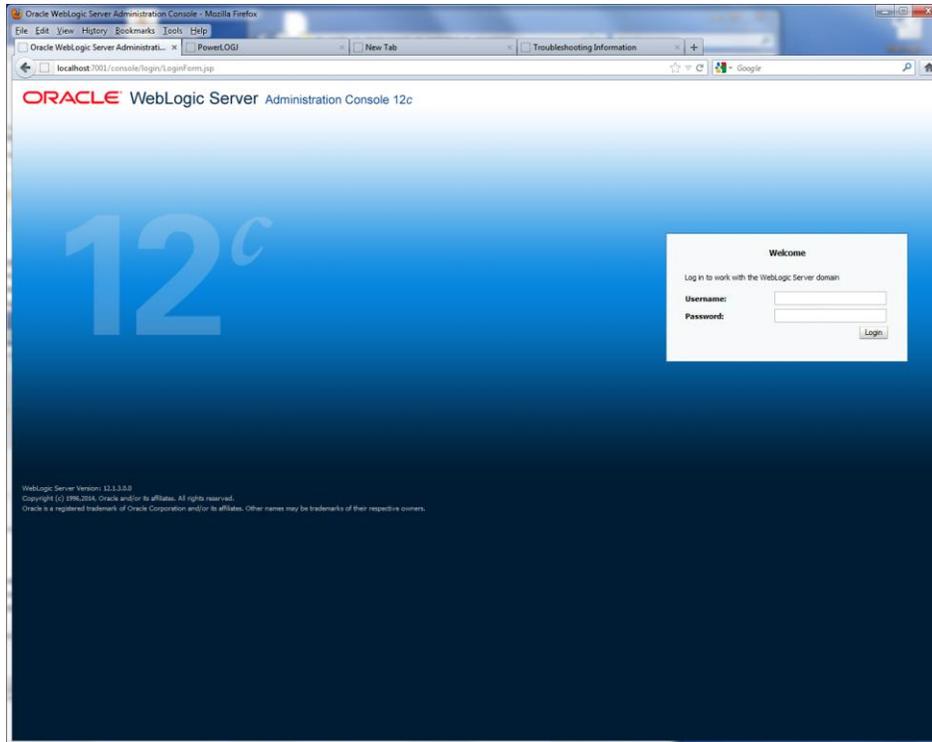
b. Enter the "Username" and "Password" fields to log into the "Administrative Console". The "WebLogic Server Administration Console" will appear.
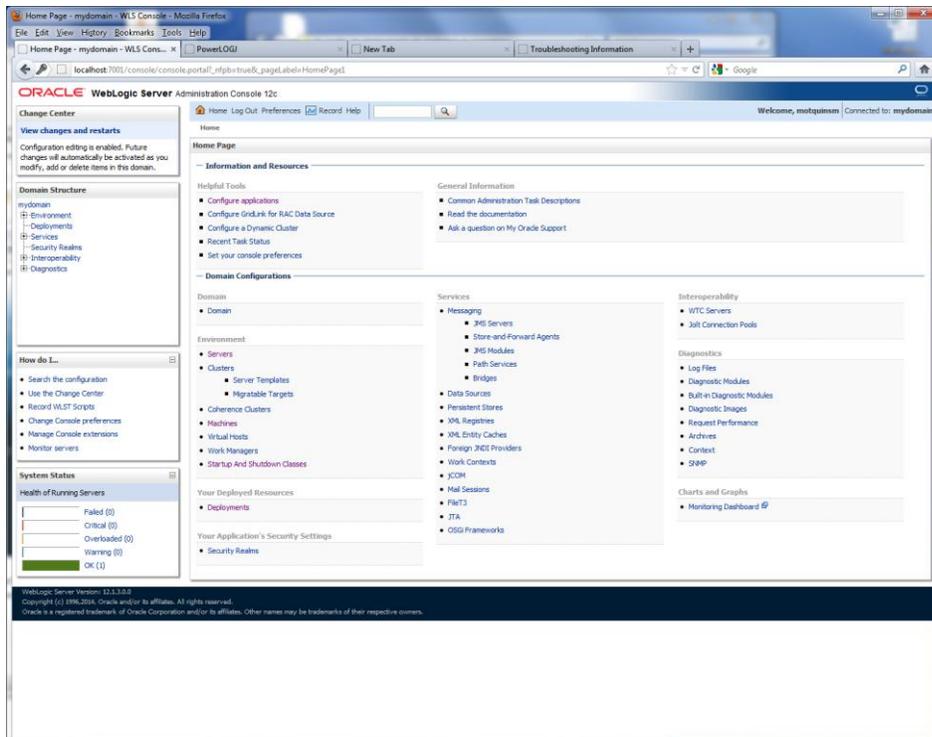
c. Select the "Deployment" link on the left hand side of the screen, underneath the "mydomain" link.
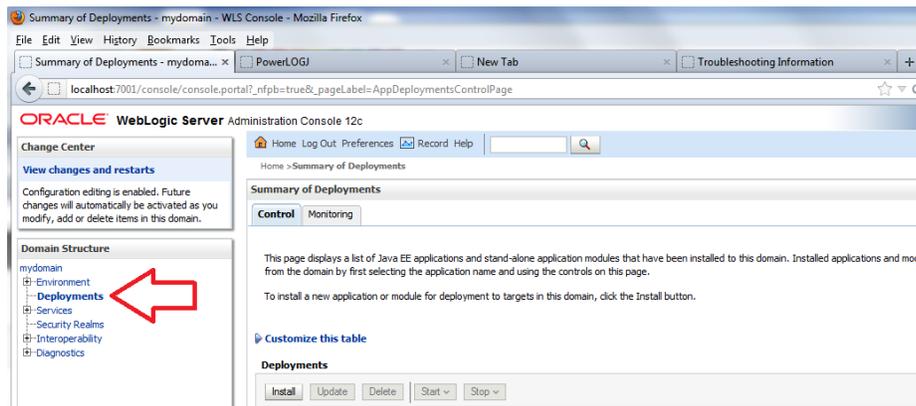
d. Click on the "Install" button to begin the deployment of the PowerLOGJ web application
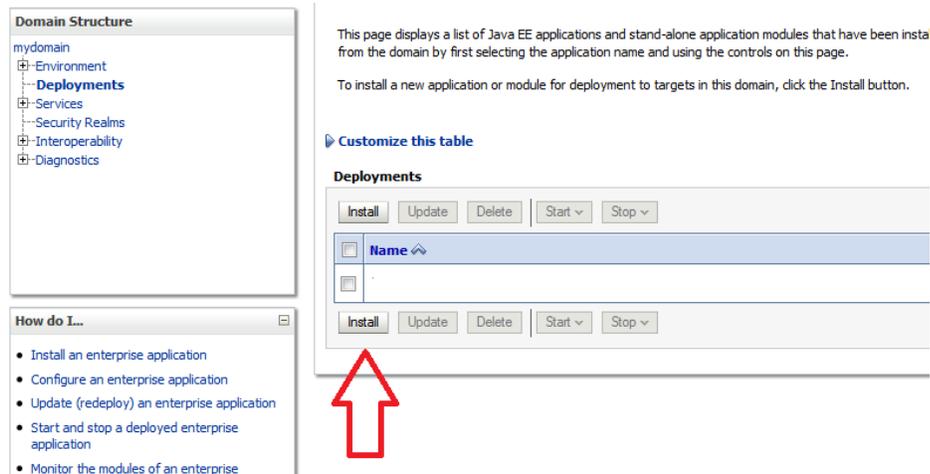
e. Browse to the "exploded\powerlogj" directory. Ensure that the radio button labeled "powerlogj" is selected and click on the "Next" button. In this case, "C:\Apps\wls1213_dev\wls12130\user_projects\domains\mydomain\config\deployments\exploded."
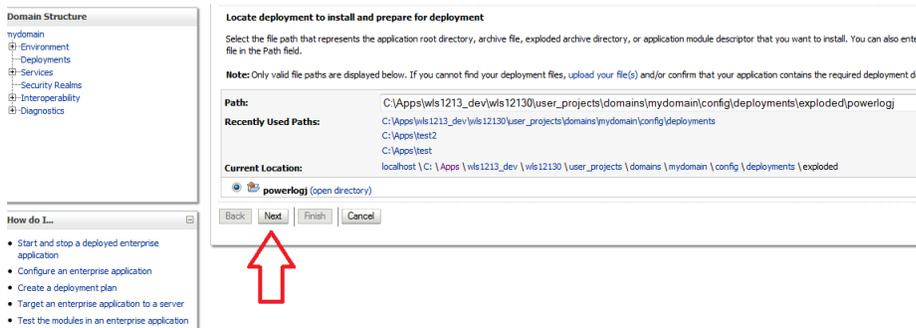
f. Ensure the "Install this deployment as an application" radio button is selected and click the "Next" button.

g. Type "powerlog2" in the "Name" field and click the "Next" button.

h. Accept the default values and click the "Finish" button.
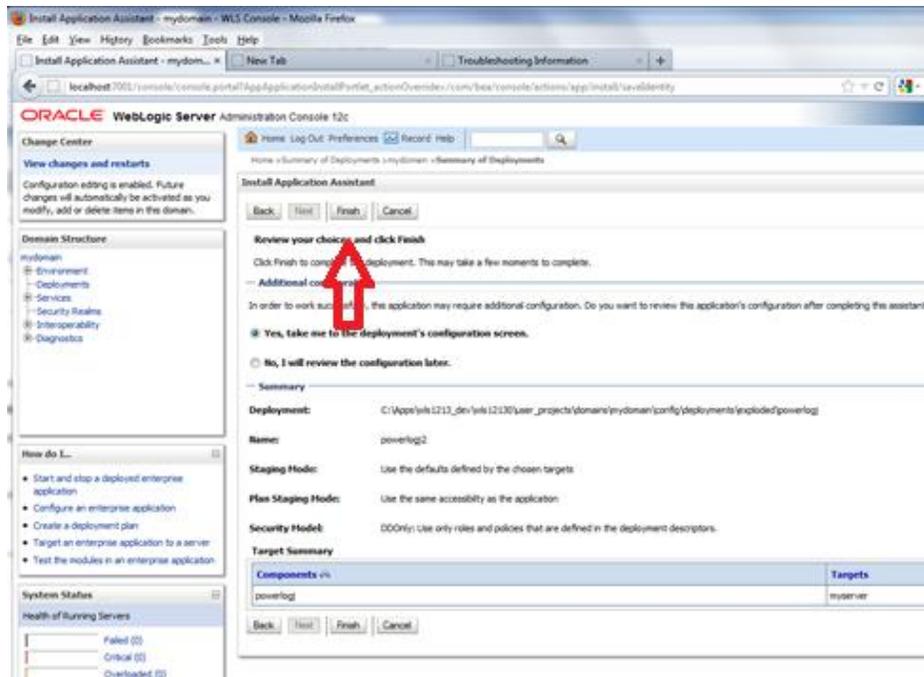
i. WebLogic Application Server will start to deploy the PowerLOGJ web application to the server. This may take several minutes. Once done deploying, an "Overview" of the application will be displayed.
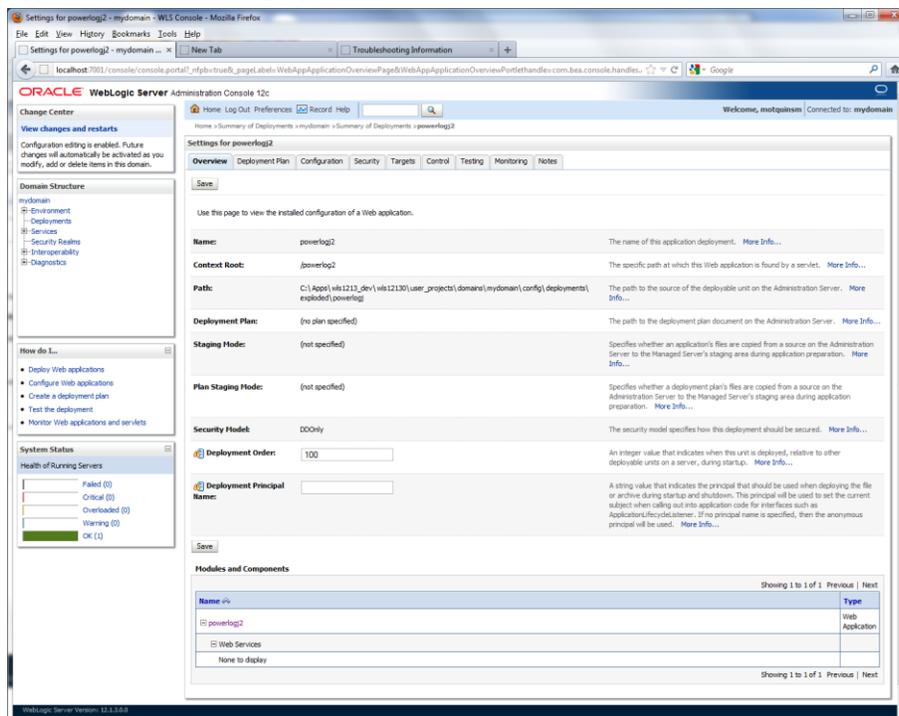
10. Start the PowerLOGJ 2.0 Web Application

a. Open a browser, such as, Mozilla, Firefox, Internet Explorer and type in the following web address: "http://<machine name>:7001/powerlog2". "The <machine name>" is the DNS host name or IP address where WebLogic was installed.
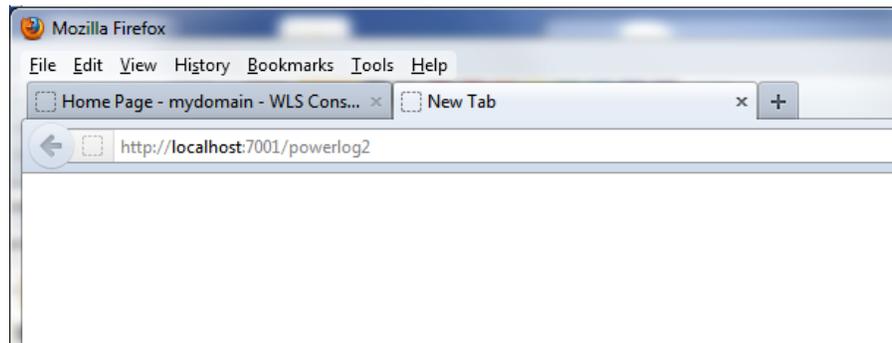
b. Type in "admin" in the "user name" and "admin" for the "password" and click the "Log in" button to start the PowerLOGJ 2.0 Web Application.
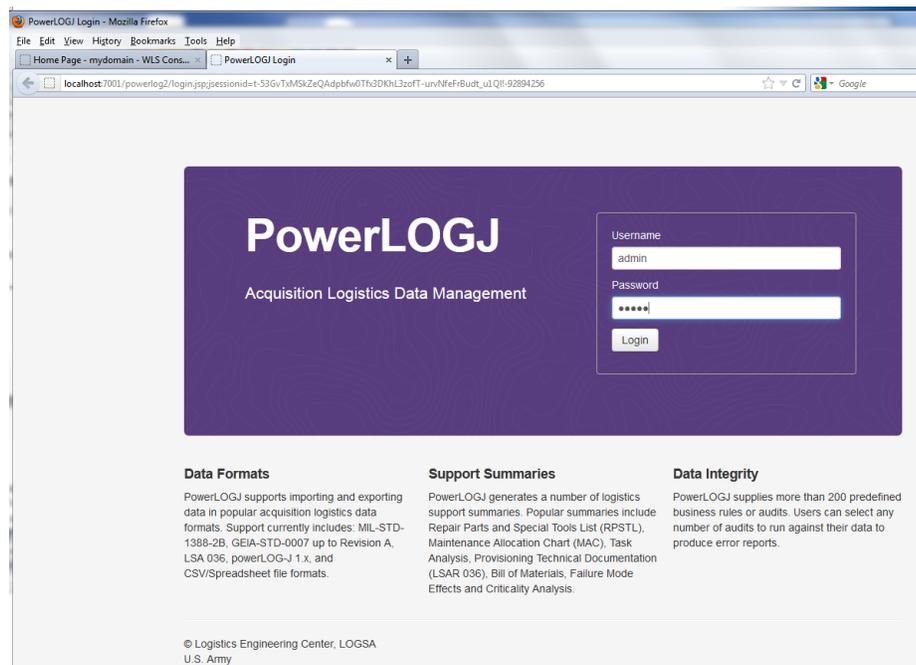
c. PowerLOGJ 2.0 is just about ready to be used. The last step is to configure the "Users" and "Groups". PowerLOGJ 2.0 enables each "Group" and/or "User" for each "System" to have access to the underlying database tables and features within the application. Instructions on how to accomplish this can be found at the PowerLOG website or by contacting the LOGSA's Logistics Engineering Center – Technical Support Branch.